International application No.

PCT/AU2004/000392

· A.	CLASSIFICATION OF SUBJECT MATTER		0			
Int. Cl. ⁷ ;	A61B 18/18, A61N 5/02					
According to	International Patent Classification (IPC) or to both	national classification and IPC				
B.	FIELDS SEARCHED					
Minimum docu	mentation searched (classification system followed by	classification symbols)				
Documentation	searched other than minimum documentation to the ex	tent that such documents are included in the fields search	ned			
Electronic data DWPI - IPC	base consulted during the international search (name o A61B, A61N & keywords: microwave, ablat	f data base and, where practicable, search terms used) ion and similar terms				
	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
A	US 6,527,768 B2 (BERUBE) 4 March 2003 Abstract	3				
A	WO 2000/049957 A1 (MICROSULIS PLC Abstract	3) 31 August 2000				
A	US 5,122,137 A (LENNOX) 16 June 1992 Abstract	·				
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	urther documents are listed in the continuation	on of Box C X See patent family anne	•¥			
		on of box C A bee parent many many				
"A" documen	idered to be of particular relevance	later document published after the international filing date or pr conflict with the application but cited to understand the principl				
"E" earlier application or patent but published on or after the "X" document of particular relevance; the claimed invention cannot be considered novel international filing date considered to involve an inventive step when the document is taken						
"L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other						
another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family						
"P" document published prior to the international filing date but later than the priority date claimed						
	al completion of the international search	Date of mailing of the international search report	2 0 JUL 2004			
12 July 2004 Name and mailing address of the ISA/AU Authorized officer						
AUSTRALIAN	PATENT OFFICE	Administration				
PO BOX 200, WODEN ACT 2606, AUSTRALIA B-mail address: pct@ipaustralia.gov.au MARK COX						
Facsimile No. (Telephone No: (02) 6283 2178				

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
First invention: Claims 1-44 Second invention: Claim 45
See extra sheet
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
X No protest accompanied the payment of additional search fees.

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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to from a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-44 are directed to a microwave antenna for medical ablation comprising an inner conductor, an outer conductor, a dielectric insulator around inner conductor and a conducting cap which surrounds a length of dielectric insulator. It is considered that a cap surrounding a length of dielectric insulator comprises a first "special technical feature".
- 2. Claim 45 is directed to a method of controlling the depth to width ratio of a lesion produced in tissue by an antenna of a microwave ablation device. It is considered that a method of controlling the depth to width ration of a lesion comprises a second "special technical feature".

Since the abovementioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept.

As the search for the second invention will require more than a little additional search effort over that for the first invention, an additional search fee is warranted.

Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		-		Pate	nt Family Member		
US	6527768	US	6287302	US	2001029368		
WO	0049957	AU	28147/00	BR	0008971	CA	2368689
		EP	1156750	GB	2363077	GB	2388039
<u></u>		ZA	200107021				
US	5122137	CA	2081464	EP	0528868	WO	9116859

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX